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Amendments to the Claims

Please amend claims 1, 10, 13, and 14 and cancel claim 5 without prejudice as indicated herein. This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

- 1. (Currently amended) A filter cartridge comprising a strip, spun bonded non-woven fabric, the fabric comprising a thermoplastic fiber in which at least a part of fiber intersections is thermally adhered by a thermal compression bonding method or a method using a heat treating machine of a hot blast circulating type, a heat through air type, an infrared heater type, or a vertical hot blast blowing type, wherein the strip, spun bonded non-woven fabric is wound around a perforated cylinder in a twill form.
- 2. (Previously presented) The filter cartridge as described in claim 1, wherein the thermoplastic fiber constituting the spun bonded non-woven fabric is a thermally adhesive composite fiber comprising a low melting point resin and a high melting point resin, the difference in a melting point of both the resins being 10°C or more.
- 3. (Original) The filter cartridge as described in claim 2, wherein the low melting point resin is linear low density polyethylene and the high melting point resin is polypropylene.
- 4. (Previously presented) The filter cartridge as described in claim 1, wherein the spun bonded non-woven fabric is bonded by thermal compression by means of a heat embossing roll.
- 5. (Cancelled)
- 6. (Previously presented) The filter cartridge as described in claim 1, wherein the strip, spun bonded non-woven fabric is twisted.
- 7. (Previously presented) The filter cartridge as described in claim 1, wherein the strip, spun bonded non-woven fabric is formed into a pleated matter having 4 to 50 pleats and wound around a perforated cylinder in a twill form.

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8. (Original) The filter cartridge as described in claim 7, wherein at least a part of the pleats of the above pleated matter is non-parallel.

- 9. (Original) The filter cartridge as described in claim 7, wherein the pleated matter has a void rate of 60 to 95 %.
- 10. (Currently amended) The filter cartridge as described in <u>claim 1</u> any of claims 1 to 3, wherein the filter cartridge has a void rate of 65 to 85 %.
- 11. (Previously presented) The filter cartridge as described in claim 1, wherein the spun bonded non-woven fabric has a slit width of 0.5 cm or more, and a product of the slit width (cm) and the basis weight (g/m^2) is 200 or less.
- 12. (Previously presented) The filter cartridge as described in claim 1, wherein the filter cartridge has a ratio of trapped particle diameter in 0.2 MPa/initial trapped particle diameter being 1 1.13 when initial trapped particle diameter is 7.1 to 30 μ m.
- 13. (Currently amended) A process for preparing a filter cartridge, wherein a strip, spun bonded eontinuous fiber non-woven fabric comprising a thermoplastic fiber, prepared by a spunbonding method in which at least a part of the fiber intersections is thermally adhered, is converged, and then wound around a perforated cylinder in a twill form.
- 14. (Currently amended) A process for preparing a filter cartridge, wherein a strip, spun bonded continuous fiber non-woven fabric comprising a thermoplastic fiber, prepared by a spunbonding method in which at least a part of the fiber intersections is thermally adhered, is pre-molded by means of a pleat-forming guide to be processed into a pleated matter, and then wound around a perforated cylinder in a twill form.
- 15. (Previously presented) A process for preparing a filter cartridge as described in claim 14, wherein the non-woven fabric is converged in such manner that the cross-sectional form of the pleated matter produced through the guide shows no parallel pleats.

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16. (Previously presented) The filter cartridge as described in claim 1, wherein the spun bonded non-woven fabric is bonded by thermal compression by means of a heat flat calendar roll.